33

6.

1	What is claimed is:		
2	1	An isolated musleis said malegule salected from the group consisting of	
3	1.	An isolated nucleic acid molecule selected from the group consisting of:	
4	a)	a nucleic acid molecule comprising a nucleotide sequence which is at least	
5	99% identical to the nucleotide sequence of SEQ ID NO:1, SEQ ID NO:3;		
6	b)	a nucleic acid molecule comprising a fragment of at least 300 nucleotides of	
7	the nucleotic	de sequence of SEQ ID NO: 1, SEQ ID NO:3;	
8	c)	a nucleic acid molecule which encodes a polypeptide comprising the amino	
9	acid sequence of SEQ ID NO:2;		
10	d)	a nucleic acid molecule which encodes a fragment of a polypeptide	
11	comprising t	he amino acid sequence of SEQ ID NO:2, wherein the fragment comprises at	
12	least 15 contiguous amino acids of SEQ ID NO: 2; and		
13	e)	a nucleic acid molecule which encodes a naturally occurring allelic variant of	
14	a polypeptide comprising the amino acid sequence of SEQ ID NO:2, wherein the nucleic		
15	acid molecule hybridizes to a nucleic acid molecule comprising SEQ ID NO: 1, 3, or a		
16	complement thereof, under stringent conditions.		
17			
18	2.	The isolated nucleic acid molecule of claim 1, which is selected from the	
19	group consisting of:		
20	a)	a nucleic acid comprising the nucleotide sequence of SEQ ID NO: 1, SEQ ID	
21	NO:3; and		
22	b)	a nucleic acid molecule which encodes a polypeptide comprising the amino	
23	acid sequence of SEQ ID NO:2.		
24			
25	3.	The nucleic acid molecule of claim 1 further comprising vector nucleic acid	
26	sequences.		
27	•		
28	4.	The nucleic acid molecule of claim 1 further comprising nucleic acid	
29	sequences encoding a heterologous polypeptide.		
30	<u>,</u>		
31	5.	A host cell which contains the nucleic acid molecule of claim 1.	
32			

The host cell of claim 5 which is a mammalian host cell.

1				
2	7.	A non-human mammalian host cell containing the nucleic acid molecule of		
3	claim 1.			
4				
5	8.	An isolated polypeptide selected from the group consisting of:		
6	a)	a polypeptide which is encoded by a nucleic acid molecule comprising a		
7	nucleotide se	equence which is at least 99% identical to a nucleic acid comprising the		
8	nucleotide sequence of SEQ ID NO: 1, SEQ ID NO:3, or a complement thereof.			
9	b)	a naturally occurring allelic variant of a polypeptide comprising the amino		
10	acid sequenc	te of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid		
11	molecule wh	nich hybridizes to a nucleic acid molecule comprising SEQ ID NO: 1, SEQ ID		
12	NO:3, or a c	omplement thereof under stringent conditions; and		
13	c)	a fragment of a polypeptide comprising the amino acid sequence of SEQ ID		
14	NO:2, wherein the fragment comprises at least 15 contiguous amino acids of SEQ ID NO:2			
15				
16	9.	The isolated polypeptide of claim 8 comprising the amino acid sequence of		
17	SEQ ID NO	:2.		
18				
19	10.	The polypeptide of claim 8 further comprising heterologous amino acid		
20	sequences.			
21				
22	11.	An antibody which specifically or selectively binds to a polypeptide of claim		
23	8.			
24				
25	12.	A method for producing a polypeptide selected from the group consisting of:		
26	a)	a polypeptide comprising the amino acid sequence of SEQ ID NO:2;		
27	b)	a polypeptide comprising a fragment of the amino acid sequence of SEQ ID		
28	NO:2, where	NO:2, wherein the fragment comprises at least 15 contiguous amino acids of SEQ ID NO:2		
29	and			
30	c)	a naturally occurring allelic variant of a polypeptide comprising the amino		
31	acid sequence	ce of SEQ ID NO:2, wherein the polypeptide is encoded by a nucleic acid		
32	molecule which hybridizes to a nucleic acid molecule comprising SEQ ID NO:1, SEQ ID			
33	NO:3, or a complement thereof under stringent conditions:			

1	comprising culturing the host cell of claim 5 under conditions in which the nucleic		
2	acid molecule is expressed.		
3			
4	13.	A method for detecting the presence of a polypeptide of claim 8 in a sample,	
5	comprising:		
6	a)	contacting the sample with a compound which selectively binds to a	
7	polypeptide of claim 8; and		
8	b)	determining whether the compound binds to the polypeptide in the sample.	
9			
10	14.	The method of claim 13, wherein the compound which binds to the	
11	polypeptide is an antibody.		
12			
13	15.	A kit comprising a compound which selectively binds to a polypeptide of	
14	claim 8 and instructions for use.		
15			
16	16.	A method for detecting the presence of a nucleic acid molecule of claim 1 in	
17	a sample, comprising the steps of:		
18	a)	contacting the sample with a nucleic acid probe or primer which selectively	
19	hybridizes to the nucleic acid molecule; and		
20	b)	determining whether the nucleic acid probe or primer binds to a nucleic acid	
21	molecule in the sample.		
22			
23	17.	The method of claim 16, wherein the sample comprises mRNA molecules	
24	and is contacted with a nucleic acid probe.		
25			
26	18.	A kit comprising a compound which selectively hybridizes to a nucleic acid	
27	molecule of	claim 1 and instructions for use.	
28			
29	19.	A method for identifying a compound which binds to a polypeptide of claim	
30	8 comprising the steps of:		
31	a)	contacting a polypeptide, or a cell expressing a polypeptide of claim 8 with a	
32	test compour	nd; and	
33	b)	determining whether the polypeptide binds to the test compound.	

1			
2	20.	The method of claim 19, wherein the binding of the test compound to the	
3	polypeptide is	detected by a method selected from the group consisting of:	
4	a)	detection of binding by direct detecting of test compound/polypeptide	
5	binding;		
6	b)	detection of binding using a competition binding assay;	
7	c)	detection of binding using an assay for 33449-mediated signal transduction.	
8			
9	21.	A method for modulating the activity of a polypeptide of claim 8 comprising	
10	contacting a polypeptide or a cell expressing a polypeptide of claim 8 with a compound		
11	which binds to the polypeptide in a sufficient concentration to modulate the activity of the		
12	polypeptide.		
13			
14	22.	A method for identifying a compound which modulates the activity of a	
15	polypeptide of claim 8, comprising:		
16	a)	contacting a polypeptide of claim 8 with a test compound; and	
17	b)	determining the effect of the test compound on the activity of the polypeptide	
18	to thereby ide	entify a compound which modulates the activity of the polypeptide.	